

Fig. 1

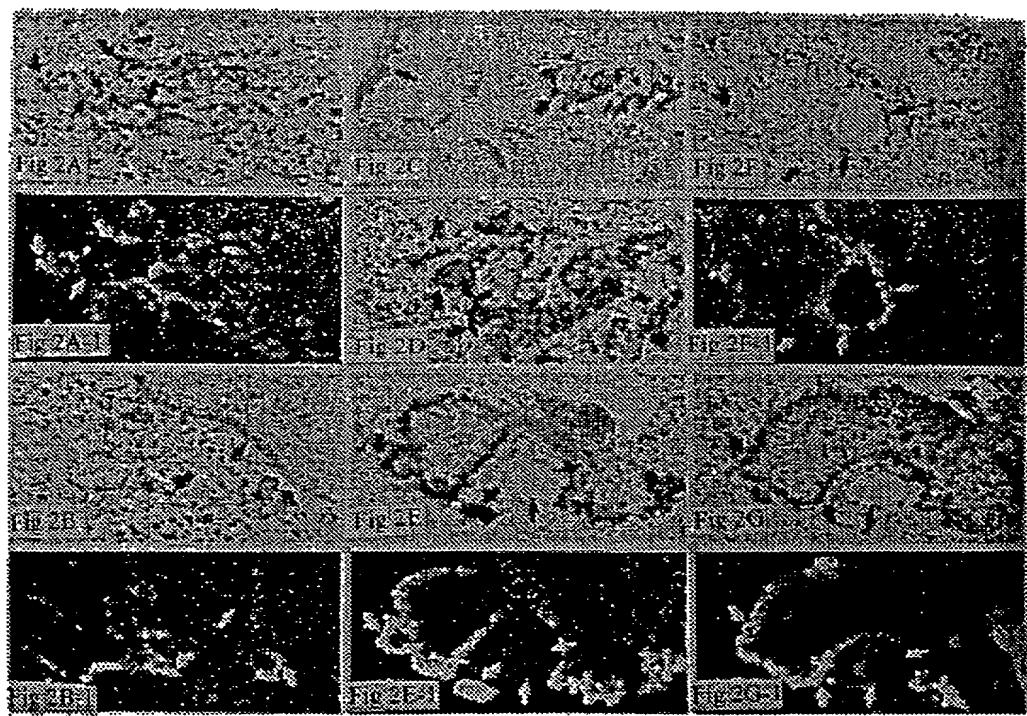


Fig. 2

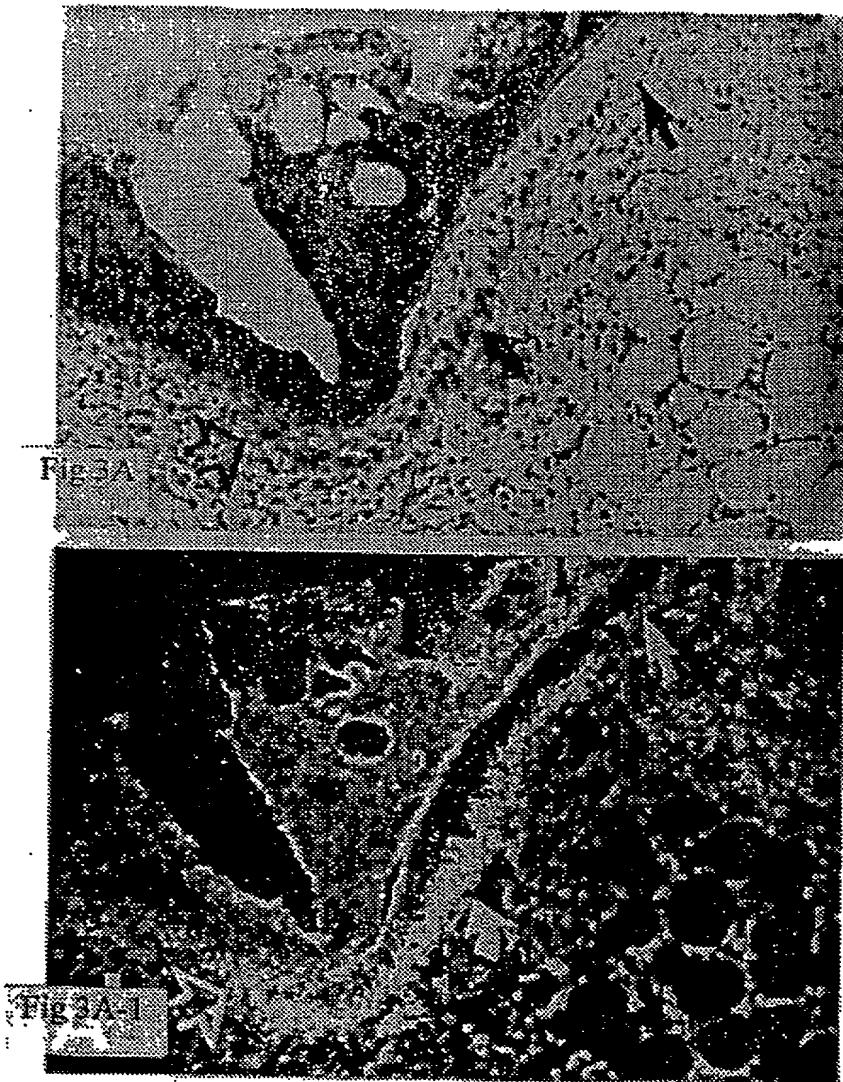


Fig. 3

FIG 4A (SEQ ID NO.:12 & 13)

1 gaccacatgtcggaggaaaa aggaaggcac agccggagcgc agagtggaaaa ccaccaaccg
 61 aggcccgggg cagcgacccc tgcagccggag acagagactg agcggccccgg caccggccatg
 1 M
 121 cctcgccctctgc ttctcgctcc tcctggccgc agccggggcc
 2 P A L W L G C C L C F S L L L P A A R R A
 181 acctccagga gggaaatgtctg tgattgcaat gggaaatgtcca ggcagtgatcttgcgg
 22 T S R R E V C D C N G K S . R Q C I F D R
 ↳ Domain V
 241 gaacttcaca gacaaactgg taatggattc cgctgcctca actgcaatga caacactgt
 42 E L H R Q T G N G F R C L N C N D N T D
 301 ggcattcaact ggcgagaatgtt caagaatggc ttttacccggc acagagaaaag ggaccgtgt
 62 G I H C E K C K N G F Y R H R E R D R C
 361 ttgcctgtca attgttaactc caaagttctt cttagtgcgc gatgtgacaa ctctggaaagg
 82 L P C N C N S K G S L S A R C D N S G R
 421 tgcagctgtta aaccagggtt gacaggagcc agatgcgacc gatgtgttcc aggttccac
 102 C S C K P G V T G A R C D R C L P G F H
 481 atgttcacgg atgcgggggtt caccggacac cagagactgc tagactccaa gtgtgactgt
 122 M L T D A G C T Q D Q R L L D S K C D C
 541 gacccagctg gcatacgccagg gcccgtgtac gccccccgtt gtgtgtccaa gccagctgt
 142 D P A G I A G P C D A G R C V C K A V
 601 actggagaac gctgtgtatgtt ggttactata atctggatgg ggggaaacct
 162 T G E R C D R C R S G Y Y N L D G G N P
 661 gagggctgtta cccagtggtt ctgttatggg cattcagccca gtcgtcccgag ctctgcagaa
 182 E G C T Q C F C Y G H S A S C R S S A E
 ↳ Domain IV
 721 tacagtgtcc ataagatcac ctctacccccc catcaagatg ttgtatggctg gaaggctgtc
 202 Y S V H K I T S T F H Q D V D G W K A V
 781 caacgaaatg ggttccttc aaagctccaa tggcacagc gccatcaaga tgtgttttagc
 222 Q R N G S P A K L Q W S Q R H Q D V F S
 841 tcagccccaaac gactagatcc ttgttccctt ggggttccctg cccaaatttt tggaaatcaa
 242 S A Q R L D P V Y F V A P K A F L G N Q
 901 cagggtggatcttggccaaag cctgttccccc gactaccgtg tggacagagg aggccagacac
 262 Q V S Y G Q S L S F D Y R V D R G G R H
 961 ccatctgtcccc atgatgtgtatgtt gctggatccac ggtatcacaccc tcccttgatgt
 282 P S A H D V I L E G A G L R I T A P L M
 1021 ccattggca agacactggc ttgtgggtcc accaagactt acacatttag gttaaatgg
 302 P L G K T L P C G L T K T Y T F R L N E
 1081 catccaagca ataattggag ccccccggatgtt agttactttt agtacatggatgg
 322 H P S N N W S P Q L S Y F E Y R R L L R
 1141 aatcttcacag ccctccggatccggatctaca tatggagaat acagatgttgg gtatattgg
 342 N L T A L R I R A T Y G E Y S T G Y I D
 1201 aatgtgtaccc tgatccatggcc cccggatgtt gctggatccccc cggccatctg ggttggaaacag
 362 N V T L I S A R P V S G A P A P W V E Q
 1261 tgtatatgttc ctgttgggtt caagggggaa ttctggccagg attgtgttcc tggctacaag
 382 C I C P V G Y K G Q F C Q D C A S G Y K
 ↳ Domain III
 1321 agagattcag cgagactggg gccttttgc acctgttattc ttgtatgttgc tcaaggggg
 402 R D S A R L G P F G T C I P C N C Q G G
 1381 gggccctgtt atccagacac aggagattgttattcgggg atgagaatcc tgacatttag
 422 G A C D P D T G D C Y S G D E N P D I E
 1441 tgtgtgtact gcccattgg ttcttacacac gatccggcagc acccccccggag ctgcaccc
 442 C A D C P I G F Y N D P H D P R S C K P
 1501 tgttccctgtt ataacgggtt cagctgttca gtcgttccgg agacggggaga ggtgtgtgt
 462 C P C H N G F S C S V I P E T E E V V C

FIG 4B

(SEQ ID NO.:12 & 13)

1561 aataactgcc ctccccgggtt caccgggtgcc cgctgtgagc tctgtgtcga tggctacttt
 482 N N C P P G V T G A R C E L C A D G Y F
 1621 ggggacccct ttggtaaca tggecccagtg aggcccttgca agccctgtca atgcaacage
 502 G D P F G E H G P V R P C Q P C Q C N S
 1681 aatgtggacc ccagtgcctc tggaaattgtt gaccggctga caggcaggtg tttgaagtgt
 522 N V D P S A S G N C D R L T G R C L K C
 1741 atccacaaca cagccggcat ctactgcac cagtc当地 caggctactt cggggaccca
 542 I H N T A G I Y C D Q C K A G Y F G D P
 1801 ttggctccca acccagcaga caagtgtcga gcttgcaact gtaacccat gggctcagag
 562 L A P N P A D K C R A C N C N P M G S E
 1861 cctgttagat gtgc当地 tggc当地 gtttgc当地 caggatttg tggccccaac
 582 P V G C R S D G T C V C K P G F G G P N
 1921 tgtgagcatg gaggattcag ctgtccagct tgctataatac aagtgaagat tcagatggat
 602 C E H G A F S C P A C Y N Q V K I Q M D
 ;=0 Domain I/II
 1981 cagtttatgc agcagctca gagaatggag gccctgat ccaaaggctca ggggggtgat
 622 Q F M Q Q L Q R M E A L I S K A Q G G D
 2041 ggagtagtac ctgatacaga gctggaaaggc aggtgc当地 aggctgagca ggc当地
 642 G V V P D T E L E G R M Q Q A E Q A L Q
 2101 gacattctga gagatgc当地 gattcagaa ggtgctagca gatcccttg tctccagtt
 662 D I L R D A Q I S E G A S R S L G L Q L
 2161 gccaagggtga ggagccaaa gaacagctac cagagccgc tggatgacct caagatgact
 682 A K V R S Q E N S Y Q S R L D D L K M T
 2221 gtggaaagag ttccggctct gggagtc当地 taccagaacc gagttcgga tactcacagg
 702 V E R V R A L G S Q Y Q N R V R D T H R
 2281 ctcatcacto agatgc当地 gagccggc当地 gaaagtgaag cttecttggg aaacactaac
 722 L I T Q M Q L S L A E S E A S L G N T N
 2341 attcctgc当地 cagaccacta cgtggggca aatggctta aaggcttgc当地 tcaggaggcc
 742 I P A S D H Y V G P N G F K S L A Q E A
 2401 acaagattag cagaaagcc cgttgc当地 gccagtaaca tggagcaact gacaaggaa
 762 T R L A E S H V E S A S N M E Q L T R E
 2461 actggaggact attccaaaca agccctc当地 ctgggtgc当地 aggccctgc当地 tgaaggagtc
 782 T E D Y S .K Q A L S L V R K A L H E G V
 2521 ggaagccgaa gc当地 gggcc ggacggtgtt gtttgc当地 ggcttgc当地 aaaattggag
 802 G S G S G S P D G A V V Q G L V E K L E
 2581 aaaaccaagt cc当地 gggccca gc当地 gaca agggaggcc ctc当地 agccga aatggagca
 822 K T K S L A Q Q L T R E A T Q A E I E A
 2641 gataggtctt atcagcacag tctccgc当地 ctggattc当地 tgc当地 ccgttgc当地 tcaggaggcc
 842 D R S Y Q H S L R L L D S V S P L Q G V
 2701 agtgatcact ctttc当地 ggaagaagca aagaggatca aacaaaagc ggattcactc
 862 S D Q S F Q V E E A K R I K Q K A D S L
 2761 tcaaggctgg taaccaggca tatggatgag ttc当地 agccgtt cacaaggaa tctggaaac
 882 S S L V T R H M D E F K R T Q K N L G N
 2821 tggaaagaag aagcacagca gcttccatc当地 aatggaaaaa gtggagaga gaaatcagat
 902 W K E E A Q Q L L Q N G K S G R E K S D
 2881 cagctgc当地 cccgtgccaa tcttgctaaa agcagagcac aagaaggact ggtatggc
 922 Q L L S R A N L A K S R A Q E A L S M G
 2941 aatgc当地 ct当地 tttatgaaat tgagagc当地 ct当地 aaaaacc tc当地 agaggtt tgacccctgc当地
 942 N A T F Y E V E S I L K N L R E F D L Q
 3001 gtggacaaca gaaaaggc当地 agctgagaa gccatgagaa gactcttca catcagccag
 962 V D N R K A E A E E A M K R L S Y I S Q
 3061 aagggttccag atgccc当地 gaagacccag caagcagaaaa gagccctggg gagcgetgc
 982 K V S D A S D K T Q Q A E R A L G S A A
 3121 gctgatgc当地 agagggcaaa gaatggggcc ggggaggccc tggaaatc当地 cagtgagatt
 1002 A D A Q R A K N G A G E A L E I S S E I

FIG 4C

(SEQ ID NO.:12 & 13)

3181 gaacaggaga ttgggagctt gaaacttggaa gccaaatgtga cagcagatgg agcccttggcc
1022 E Q E I G S L N L E A N V T A D G A L A
3241 atggaaaagg gactggcctc tctgaagagt gagatgaggg aagtggaaagg agagctggaa
1042 M E K G L A S L K S E M R E V E G E L E
3301 aggaaggagc tggagttta cacaaatatg gatgcagttc agatgggtat tacagaagcc
1062 R. K E L E F D T N M D A V Q M V I T E A
3361 cagaagggtt ataccagagc caagaacgtt ggggttacaa tccaagacac actcaacaca
1082 Q K V D T R A . K N A G V T I Q D T L N T
3421 ttagacggcc tcctgcattt gatggaccag ccttcattt tagatgaaga ggggctggtc
1102 L D G L L H L M D Q P L S V D E E G L V
3481 ttactggagc agaagcttc ccgagccaag acccagatca acagccaaact gcggccccatg
1122 L L E Q K L S R A K T Q I N S Q L R P M
3541 atgtcagagc tggaaagagag ggcacgtcag cagagggggcc acctccattt gctggagaca
1142 M S E L E E R A R Q Q R G H L H L E T
3601 agcatagatg ggattctggc ttagtgaag aacttggaga acattaggaa caacctgccc
1162 S I D G I L A D V K N L E N I R D N L P
3661 ccagggctgtc acaataccca ggctttagag caacagtgaa gctgccataa atatttctca
1182 P G C Y N T Q A L E Q Q *

3721 actgaggttc ttggatata gatctcaggc ctggggagcc atgtcatgtg agtgggtgg
3781 atggggacat ttgaacatgt ttaatggta tgctcaggcc aactgaccc accccattcc
3841 ttagccccatg gccagggtgt tggcttattt caccataactc cttgtttccctt gatgtggcc
3901 atgaggccaga taggcactgg tggagaatg atcaaggatc tggaccccaa agatagactg
3961 gatggaaaga caaaactgcac aggccatgt ttgcctcata atatgtctaa gtggagtcct
4021 ggaattttggc caagtgtgt tggatatacg tcaacttattt ctttgatgtt tggactaaa
4081 gggaaaaact ttgactttgc ccaggcatg aattttccctt aatgtcagaa cagaatgc
4141 cccagtcaca ctgtggcccg taaaatacta ttgcctcata ttgtcctctt caagtttcc
4201 gctgatcaga ttcccttcta cttacaaccc agggtgtgaa catgttctcc attttcaagc
4261 tggaaagaatg gggcgtgtt gggtgggaa cttgtggggc aggccatcc agatgtatgg
4321 tgcctgtgg tgcctgcac cttcaacttgc tggacccatgg catgacatcc tttttttaa
4381 ttagtgcata gcaacttgc tttttttttt tattaaagg attttccatcc agcaagcc
4441 atgtttggaa agtattttact tttttttttt caaatgtata gaaaatgtg gctttggccat
4501 tggaaagatgt aaaattctt agatttatta gtccttattt aatccctactt ttcgaacacc
4561 aaaaatgtg cgcataatg tattttatct ttttttctca attccttc tttttccccc
4621 acccataata agagaatgtt cttacttcata cttcacttgc gtcacatcca tccctccatt
4681 catcccttcca tccatcttccatccatccatccatccatccatccatccatccatccatccat
4741 ggttacatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
4801 gagttgattt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
4861 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
4921 acagaacata tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
4981 ctgggttggc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
5041 aacagactgt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
5101 caccctggctt gggaaagacta tttttttttt tttttttttt tttttttttt tttttttttt
5161 aagtgtttttt aaataaaagaa caatttttag atgccccaaa //

FIG 4D

(SEQ ID NO.:14 & 15)

3421 ttagacggcc tcctgcactt gatgggtatg tgaacccaca acccacaacc ttccagctcc
1102 L D G L L H L M G M *

3481 atgcgtccagg gccttgcctt agaacactca ctatacctag ccccagcaaa gggagtc
3541 acgtttccctt aaggatatca gtaaatgtgc tttgtttcca ggcccagata actttcgca
3601 gtttcccccta catttactgg accctgtttt accgttgctt agatgggtca ctgaacacct
3661 atgcacttg gggtaaagg tctgtggcc aaagaacagg ttttatataag caacttcaca
3721 gaacacgaga cagcttggga atcctgctaa agagtctggc ctggaccctg agaagccagt
3781 ggacagtttt aagcagagga ataacatcac cactgtataat ttcagaaaaga tcactaggc
3841 acccgagtgg aggaaagctt gaagaggggg ttagagagaa ggcaggttga gactacttaa
3901 gatattgttg aaataatgtt agagagaaat gacaggagcc tgctctaagg cagtagaaatg
3961 gtggctggga agatgtgaag gaagatttc ccagtctgtt aagtcaagaa tcacttgccg
4021 gccccgtgtt gtggctcaag cctgttaattt tagcactttt ggagactgaa ggggtggat
4081 caccggaggt caggagttaa agaccagcct gccaacatg gtgaaaccct gtctctacta
4141 aaagtacaaa aattagctgg atgatgggtt tggcgcctt taattccagc tactcaggag
4201 tctgaggcag gagaatcgct tgaacccagg aggcgaggtt acagtgagcc aagattgcac
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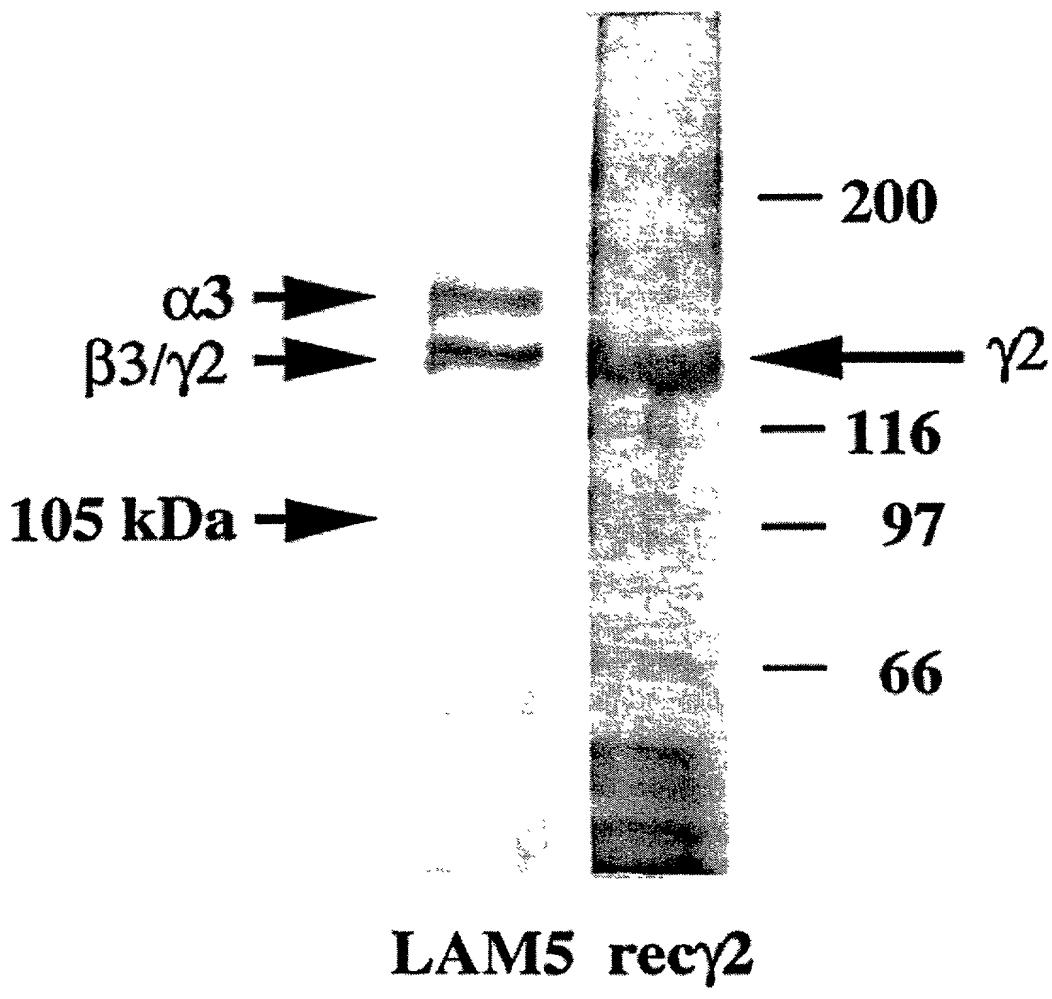


Fig. 5

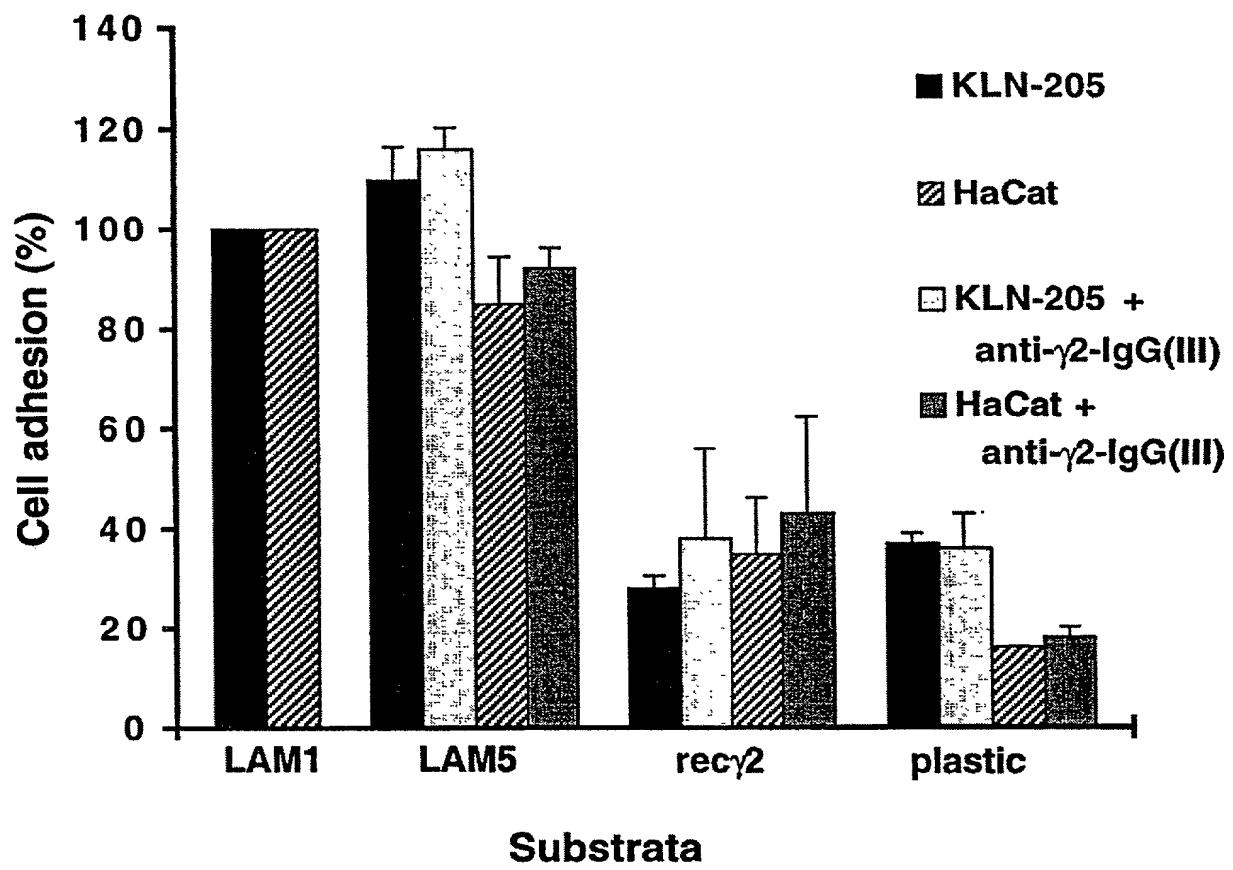


Fig. 6

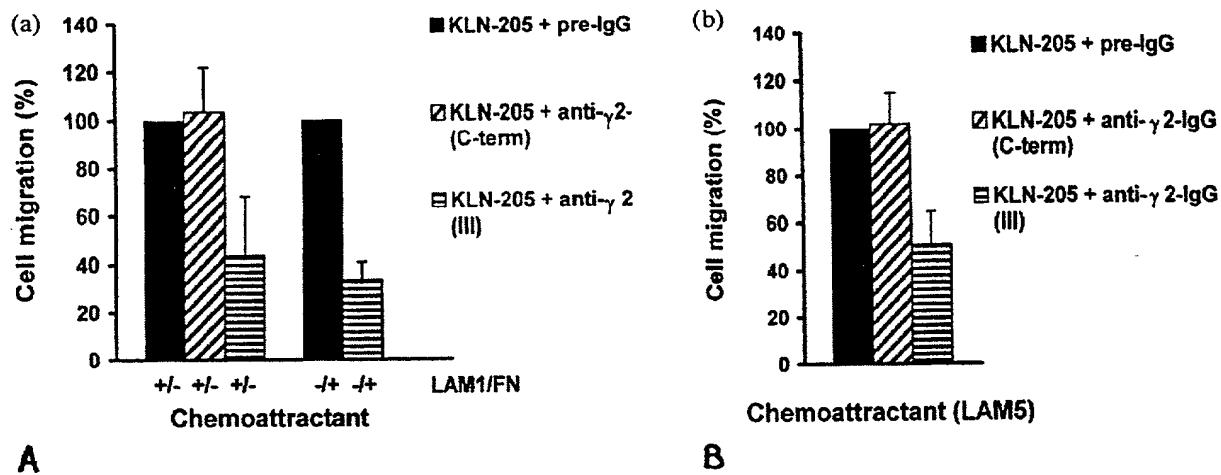


Fig 7

-613 AGTCTTTATA GGGAGGTTGG CCAGTCAATA GTTACTTTA TGAGTTGCTA ACCCTGGTGA GCAGGAAGTT ATGTGGACCA
 -533 GGAGAGAAAC CCTTGGTCA GCCTGGAGAA AGGAGAGGTT GACCCCTAAC TGGAGGGTGG AGAGGACCC GTTGTGACTC
 -453 TCCGACTGAC TTGTCTTCCT TGATGTCCTT TAAGCCGGAG CTGATTCCGG CTGCTGCCTT ATTTCTGAGT TAGCGCTCTT
 CTF SP1
 -373 AAGATTGGGC CTCAGTTT GAGGAAGGG CGGGCTGCTG TCTACCTCTG TGAATCTGCC CTGGACCACC CGGGAGAGA
 -293 AGGAGGGCTC CGGGGAATCT CGCACATTCC AGGCAAAGGC TCCCAGGGCC CAGCCTCTGT GCCACACCCCT TGGCCCGGGC
 SP1
 -213 CAGGTGTGCC CCCTCCTCGC TGCGAGGGGG AGCGGGCGGC TCGGGGGAGC GATTTCCAG CCCGGTTTGT GCTCTGTGTG
 -133 TTTGTCTGCC TCTGGAGGGC TGGGTCTCC TTATTCACAG GTGAGTCACA CCCTGAAACA CAGGCTCTCT TCCTGTCAGG
 AP-1
 -53 ACTGAGTCAG GTAGAAGAGT CGATAAACC ACCTGATCAA GGAAAGGAA GGCACAGGG AGCGCAGAGT GAGAACCCACC
 +27 AACCGAGGGCG CGGGCGAGCG ACCCTGCAG CGGAGACAGA GACTGAGCGG CCCGGCACCG CCATGCCGTG GCTCTGGCTG
 M P A L W L

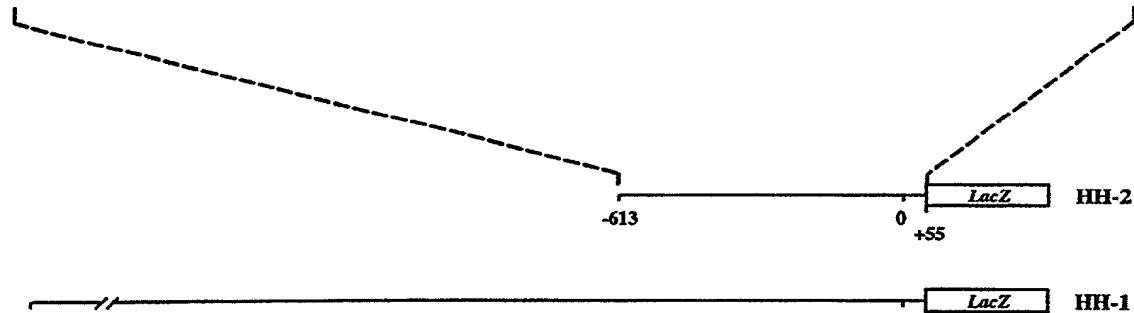


Fig. 8

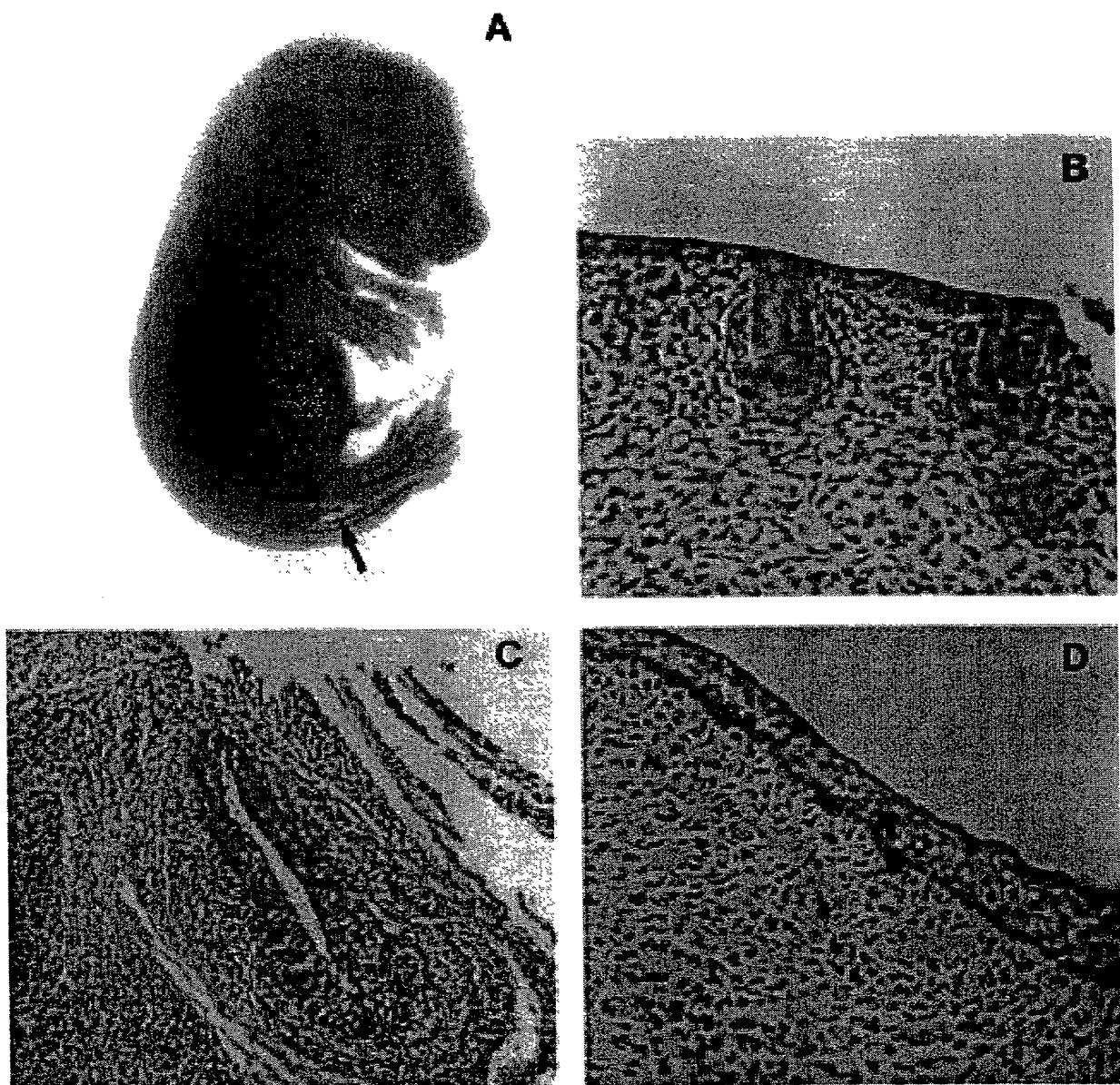


Fig. 9

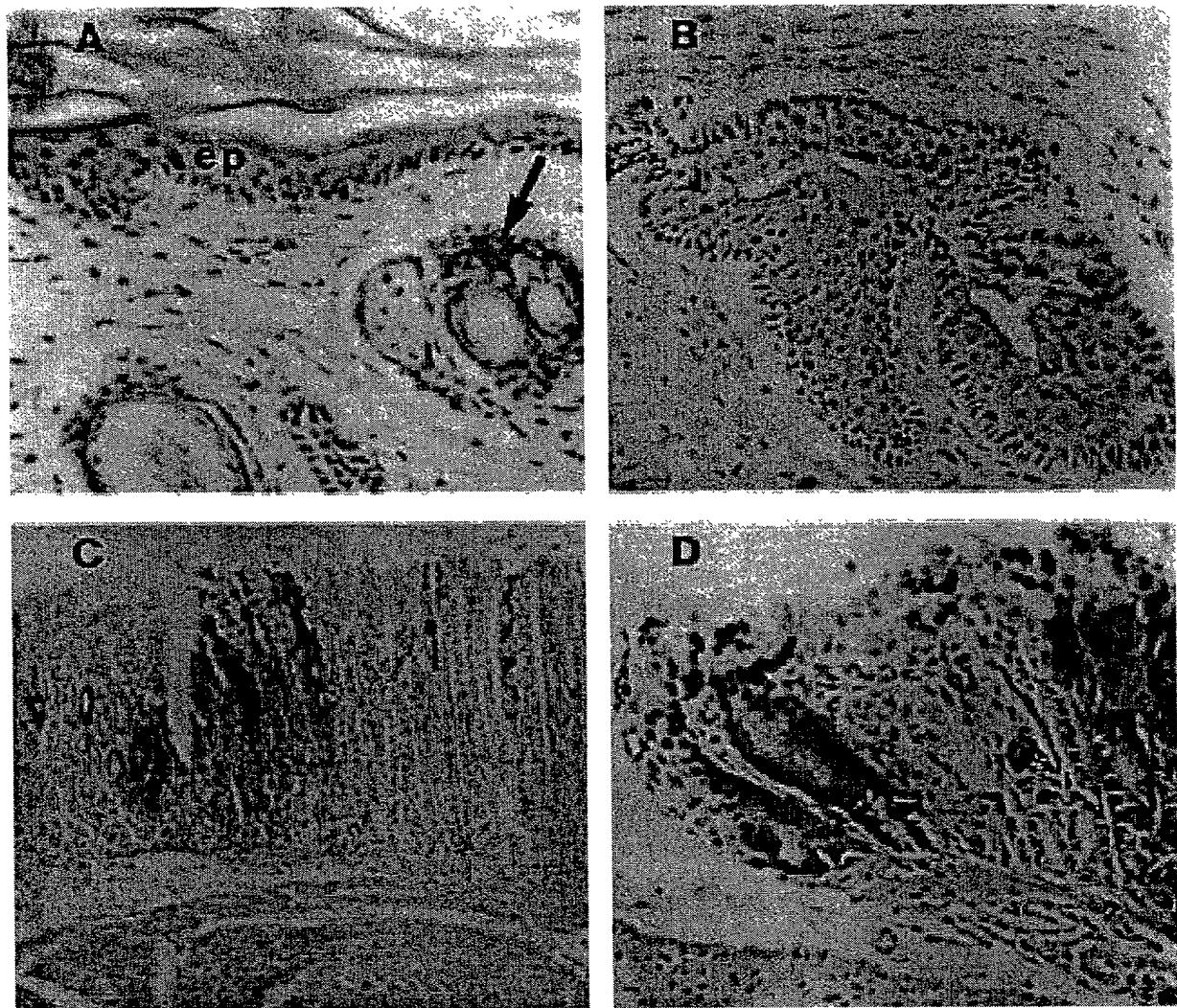


Fig. 10

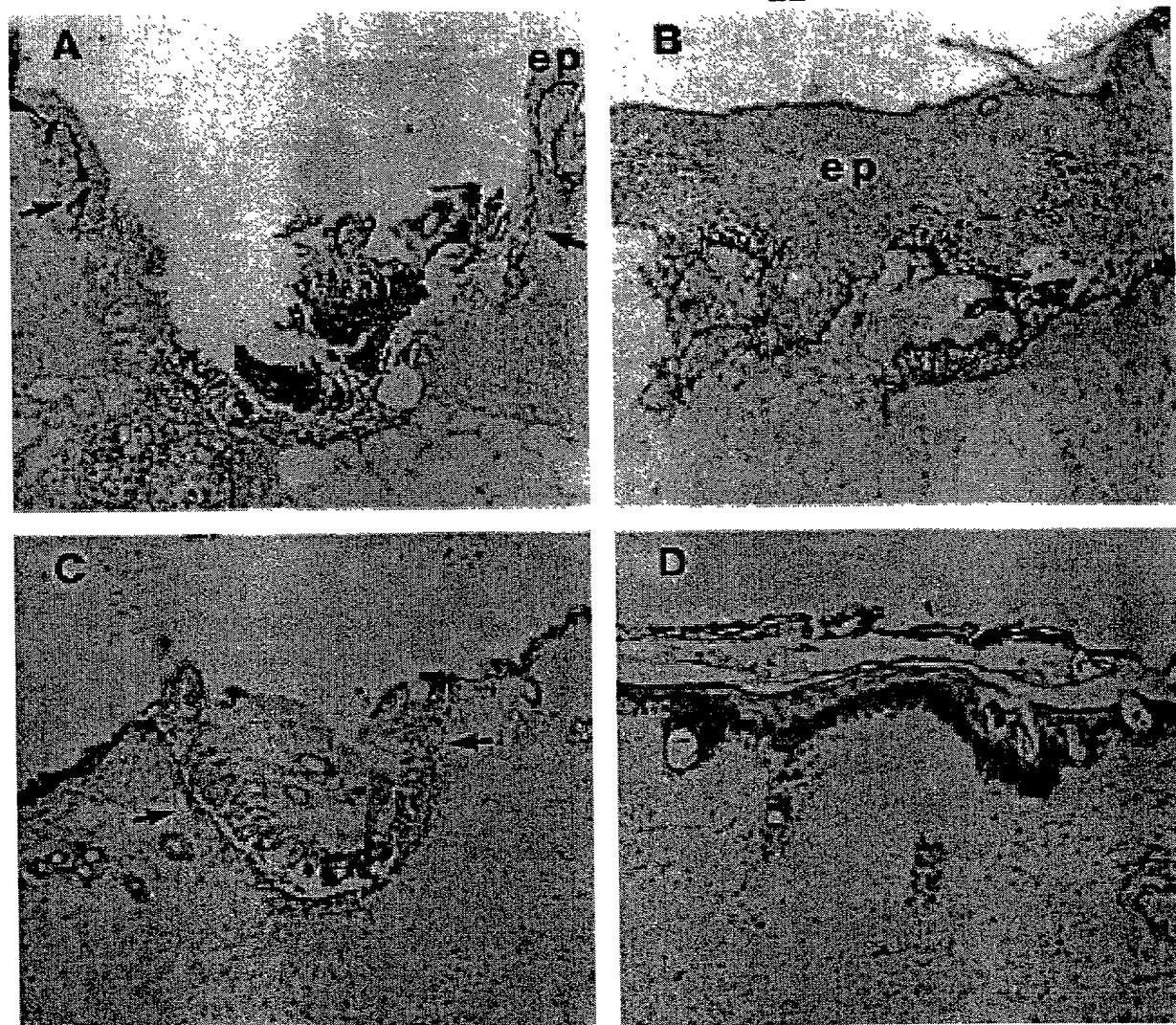


Fig. 11